Oregon Tualatin Valley Amateur Radio Club



From The President's Desk

By Alan Churchill, AA7CV

They Came, They Saw, They Sought.
They Learned, They Bargained, They Bought.
They Tested, They Passed, They Thought.
They Wrote, They Planned, They Taught.

When asked if they were coming back, They all said "We'll give it a shot".

They (of course) are all the thousands of attendees of Sea-Pac. Nearly 3000 soles (6000 soles) showed up at the best ever convention and nobody was disappointed.

The banquet was a sellout, the casino night was an outrageous success, the seminars were fascinating, the swap tables were loaded with great gear in addition to the regular junque and the commercial exhibits were bigger than ever. It truly was a spectacle and I am very proud of the super effort put out by our band of merry volunteers.

Here is a partial (PARTIAL) list of the people who put the whole thing together.

Randy Stimson	Jim Schaeffer	Al Berg	Bradley Beach
Susan Benson	Neil McKie	Bobbi Antons	Rick Doescher
Bud Butterfield	Betty Mickley	Joan Schouweiler	Ken Gilbert
Hanford Van Ness	Darwin Durr	John Klein	Rex Danton
Randy Cobb	Bob Orr		

Thanks to all the helpers and everywhere who attended. Sea-Pac 93, here we come.

Field Day is of course also now history. Since this newsletter couldn't make it in until after the event, we'll have a full report next month.

Tune In, Turn On & Tune Up is HERE. The next club meeting (July 8) will be devoted to fixing, learning and trading. We will have at least 2 service monitors (spelled expensive test equipment) at our beck and call (professional operators supplied) to help us get that old rig tuned up perfectly. Fill in the form found elsewhere in this newsletter before you come to the club meeting and you can do wonders for your signal. If you don't have a rig that needs tuning, bring up to 10 items to sell. We will have a swap night going on at the same time. Be sure to bring extension cords if needed.

You must be self sufficient on this one. You keep 100% of whatever you sell your equipment for so this is a great chance to get back some of the money you spent at Sea-Pac.

Be there or be square. OTVARC should be spelled "ACTION".

73, Alan Churchill AA7CV

At the next meeting

July Meeting: "Drop In, Turn On, & Tune Up and Swap Night"

This is the meeting where you bring your rigs, test equipment, manuals, problems, questions & answers. We will have some very good test equipment available to inspect the innards of your ailing rigs.

Elsewhere in this newsletter is a form for you to complete showing what the problem is. You should fill this out now and mail it to our club PO box. Our experts will complete the form showing what the cure was. You will also have the specs before and after adjustment.

Due to a time restriction, major problems can't be addressed but if it is a simple tune-up or adjustment problem, This is your night. There is no charge for this fun evening. Come early and stay late. As you may expect, the club can assume no liability for damage to your equipment. If we burn it up, we will definitely be sorry but not liable. Club members only please.

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Events Calendar

June 26, 27 and 28
Field Day, Camp Wilkerson

July 1
OTVARC Board Meeting

July 8
OTVARC General Meeting
Beaverton Elks Club

July 17, 18, 19
Glacier - Waterton Hamfest
East Clacier, MT

July 25
Coos County Hamfest
North Bend, Oregon

August 5
OTVARC Board Meeting

August 8
Central Oregon Hamfest
Mt Bachelor Lodge
Bend, Oregon

August 12
OTVARC General Meeting
Beaverton Elks Club

September 12
Saratoga County Hamfest
Ballston Spa, New York

Please contact the newsletter staff with dates and times of upcomming events you know about.

HANDY OTVARC TO DO LIST

(Tear out and paste to dashboard)

1) Do daily exercises to work off pounds gained at Field Day feasting.

2) Get rig and documentation ready for tune up night.

3) Attend club meeting July 8 - Bring broken rig.

4) Attend hamfairs coming up in N. Bend (7/25) & Bend (8/8).

5) Take upgrade test on July 12.

6) Volunteer to be OTVARC newsletter editor.

Upcoming Test Sessions

If your are looking to take your first test, or if you have your heart set on upgrading, here are a few upcomming test sessions:

Date:	July 12, 1992
Registration:	Those wishing to take exams must call Edith prior to the examination date.
Test Starts:	1:00 PM
Location:	Port Adventist Educational Center A 10123 SE Market
Contact:	Edith Litvin, KA7MIF
Phone:	642-5803

Date:	August 8, 1992
Registration:	9:30 AM
Test Starts:	10:00 AM
Location:	Mt Hood Comm College Room 1001 26000 SE Stark
Contact:	Rick Lanz, N7WCC
Phone:	777-1131

Reports indicate that some test sessions held in recent months have been crowded. Perhaps it is a result of the availability of the "no-code" Technician class license.

Although OTVARC does not presently sponsor regular test sessions, many club members are active in the volunteer examination program.

In conjunction with the spring term Novice class at PCC, OTVARC members offered a Novice test session in May and an upgrade test session in June. Those who participated include Alan Churchill, Tom Durell, John Burgess and Ira Rubin. In addition, several OTVARC members helped administer the recent test session at SEAPAC.

Should OTVARC sponsor regular test sessions? Please let your board members know how you feel on this issue.

The Radio Clinic

Answers to all those questions you have never asked

Dear Hambones:
I have purchased the service manual for my Japanese built rig and find the alignment instructions and some specifications refer to SSG levels. What is SSG and how do these units equate to the microvolts/-dbm on my US signal generator scale?

Rice Box Owner

Dear Owner,
Japanese Standard Signal Generator levels are based on 0dB at 1 microvolt (dBu) closed circuit voltage terminated with 50 ohms. US signal generators are calibrated in microvolts or -dBm based on open circuit voltage. CAUTION: the difference in termination shifts the US scale by -6dBu. Use the table below to equate the scales:

Japanese SSG	American SSG
-6 dB	0.25uV -119dBm
0 dB	0.5uV -113 dBm
6 dB	1.0uV -107 dBm
12 dB	2.0 uV -101 dBm
24 dB	8.0 uV -88 dBm
30 dB	16.8 uV -83 dBm
40 dB	50 uV -73 dBm
50 dB	158 uV -63 dBm
60 dB	500 uV -53 dBm
70 dB	1.58 mV -43 dBm
80 dB	5.0 mV -33 dBm
90 dB	15.8 mV -23 dBm
100 dB	50 mV -13 dBm
120 dB	158 mV -3 dBm
	223.6 mV 0 dBm

A check of the clinic Phd (piled high and deep) library yielded a couple nifty graphs for interpolating the above table.Ask your local Trio-Kenwood Corporation dealer for your own copy of Kenwood Technical Manual Communications, Part Number B51-3047-00 (no cost). figures 9-3 and 9-4 apply to the SSG/US conversions. (Lots of luck getting this via a 1-800 discount appliance store).

Rx -- Next time buy American

Dear Hambones
I got a supper deal on a Hallicrafters FPM-300 Communications Transceiver at the swapfest. But, it only works on one band. I noticed a worn belt connecting the bandswitch to the VFO / Mixer board. The manual doesn't give a part number and the company is no longer in business. Help!

Bargain Hunter

Dear Flea-bitten,
There is hope for your rig. Carefully remove all cover, knobs, and front panel control nuts. Also remove the nuts and small PCB from the back of the S-meter and disconnect the dual lamp wire at the push on terminal on the VFO board. CAREFULLY pull the panel off the control shafts. DO NOT allow the S-meter to strike the vertical switch board (it cracks very easily). This will give you access to the worn belt and two plastic gears. If your problem is only a worn-out belt with missing teeth, slide the belt and two gears out together and reposition the worn spots into the middle of the span and reinstall it. However, if anyone has ever used spray cleaner on the band switch, the brown belt rapidly changes into a gummy mess and an new one will be needed. I have finally found a source of an equivalent belt...a Gates U64MXL025 toothed belt will work. It is a black rubber belt 6.25 inches with 80 teeth. This should cost you around $12 if you can find one locally. Try a parts house (Norvac?) that carries the PRB belt line, and ask them to order a PRB GT6.2. You have to wait a while as PRB requires a minimum $25+shipping/ handling order from the parts house. So a special "I Gotta have it" order could cost you $30. In the meantime, clean up those gears as best you can (soak in dish detergent). Take a cotton swab with contact cleaner and clean the bandswitches while you have access to them. Just remember to scribe an index mark before you rotate the shafts or you won't be selecting the correct bands when you reassemble everything. The new belt will be a very tight fit at first, requiring you to loosen both PCB mounting bolts and push the board edges together. The belt with gears can now be slowly walked down the switch shafts. retighten the mounting bolts and reassemble the panel, meter, etc. After a few weeks. the belt will stretch and you need to lift the top cover, loosen the PCB bolts an using a small screwdriver or knife blade, pry the boards apart to tension the belt. Then retighten the bolts.

Rx--avoid swapfest "bargains"

Dear Hambones:
I tried to order Kenwood parts from Long Beach, CA, and was informed they no longer sell to individual hams. Where can I order parts?

Thank you from Perplexed

Dear 'Plexed':
Order Kenwood parts from:
Pacific Coast Parts Distributors, Inc.
15024 Staff Court
Gardena, CA 90248
1-800-421-5080
FAX 1-800-782-5747
Put a "K" in front of the part number you already have to specify Kenwood. They also need you plastic card info and shipping method desired. You will be charged retail plus shipping and handling.

Rx--try your local dealer and let him pay the shipping costs!

The radio doctor invites your letters regarding rig problems not covered in service manuals, etc. Send them in care of the newsletter editor and those deemed of general interest will be published. The doctor will remain anonymous to avoid arguments with Brash book Extras and CBers!

OTVARC Bylaws Changes Proposed

Sponsored by Alan Roehl, KO7B, Gene Buehl, KA7KBH, and Linda Buckley, KB7IGO

These proposed changes to our constitution by-laws are the result of the ad-hoc committee formed in late 1991. These changes should allow us to tighten up our financial operations and maintain our tax exempt status with the IRS.

Comments on these changes (if any) will be printed elsewhere in this publication. No discussion will occur at the regular meeting. Voting will take place at the July 8, 1992 meeting.

Section 2: Meetings. Delete last sentence. "The board shall meet at least once every calendar quarter to transact club business. Add: The board of directors shall meet at least once per month on an established day (for example the first Wednesday of every month).

Section 9: Books & Records; Add: Subheading E, expenditures in excess of $200 (that are not a part of the annual budget) shall require board of directors prior approval. Section F: A Custodian of property shall be appointed by the board of directors. The Custodian shall be responsible for all property owned by the OTVARC club. He/She shall maintain an inventory of property.

Section G: Disbursement of capital upon dissolution of the club. Disbursements shall be subject to board of director approval. Disbursements shall be made in the interest of future amateur radio. For example, to an amateur radio charity organization.

Section 10. Nomination and election of officers.
Add: Section F.
Beginning with the next regular election, three of the five trustees shall be elected to two year terms. The other two trustees shall be elected to one year terms. At the following years election the two trustee vacancies shall be elected to two year terms. From that time on all trustee positions shall be two year terms alternating to insure continuity between the trustees.

OTVARC Trading Post

FOR SALE:
Older Heath gear. Ray Deeth K7VDQ. 324-4502.

FOR SALE:
Member badges for OTVARC members. For only $4 you get your very own name and call on a pin so we will all know who you are at the meetings. Contact John KA7ICV at any regular meeting to order yours.

WANTED:
Great junk for the OTVARC swap meet this July 8. Bring your old stuff and go home with some new stuff.

Want ads in the OTVARC newsletter are published free for members. You can get yours in the next edition by mailing your ad to the club P.O. Box. The address is:

OTVARC
P.O. Box 5132
Aloha, Oregon 97006-0132

Hamfest Schedule

July 17-19
Glacier - Waterton Hamfest
Three Forks Campground
16 Mi west of East Glacier, MT
Prizes, Meals, Dealers
Swap Meet, VE Testing
Contact Phil Bates, VE6MZ
52 Doverglen Crescent SE
Calgary, AB T2B 2P6
$10 for all 3 days
Talk in 146.52

July 25
Coos Co Radio Club
Junior Hi School
North Bend, OR
Door Prizes, Swap Meet
VE Exams, Seminars
Admission $5
Call 503-888-2317
Coos Co Radio Club
P.O. Box 3494
Coos Bay, OR 97420
Talkin 146.01/.61

Aug 8 9 AM to 4 PM
Central OR Radio Amateurs
High Cascade Hamfair
Mt Bachelor Lodge
20 Mi SW of Bend
Flea Mkt, VE Exams
$7 Registration
Don Harrisngton, N7ION
69706 W. Meadow Parkway
Sisters, OR 97759
Phone 503-549-7951
Talk in 147.06+

Sept 12 7 AM to 5 PM
Saratoga County RACES Assn
County Fairgrounds
Ballston Spa, NY
Swap Shop, Dealers
Camping, Junk
Admission $4
Contact N2FEP
P.O. Box 41
Rock City Falls, NY 12863
Talk in 146.4, 147.00, 147.84
Contact Ray Deeth for beam headings.

A Club Callsign for OTVARC ?

Specific callsigns are not available to individual hams, but club callsigns might be issued

Officials at the FCC have noted that the most often asked question is "How can I get a specific callsign?" Many years after the FCC switched to an outomated system that issues callsigns according to well known rules, staff members still get requests for exceptions. In fact, each new calsign is selected in a systematic manner, from the alphabetized regional group listings for the applicant's class of license and mailing address.

The station call is only changed when you check the box in Item 2E on the Form 610. Each change in callsign is processed using the procedure for a new callsign; thus, amateurs cannot change their calls back to the one they used to hold, or to calls held by famous Silent Keys, or specific initials or words, for example.

A ham's license information is kept for two years beyond expiration in the FCC database. This is to provide a brace period for those who froget to renew their expired licenses. The two year grace period was added when the FCC started issuing licenses for ten year terms. At one time, the operator portion of license had a five year grace period.

The FCC terminated in 1989 a proceeding that looked into whether a custom assigned callsign system could happenusing private sector support. The FCC concluded that such a system would require diversion of significant resources that are essential to timely and efficient processing of licenses. Some hams offered to pay for callsigns, but the FCC does not have authority to charge a fee for the amateur service license.

The FCC's Gettysburg licensing staff is nevertheless still looking into how club callsigns might be once again made available.

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Drop In, Turn On and Tune Up Night at OTVARC

Wednesday, July 8, 1992 at OTVARC Regular Meeting

Please complete and mail this form prior to coming to the July meeting. First come, first served so get these forms in early The OTVARC club will not be responsible for damage to equipment. Mail to :OTVARC Tune UP, PO Box 5132 Aloha, OR 97006-0132

Member Name _____ Call _____

Address _____

City, State, & Zip _____ Phone _____

Make, Model & Serial number of your rig _____

Attachments or Accessories _____

Manual included? _____ Have your customized? _____

Problem or Desired Work to be done _____

To Be Completed By OTVARC Technicians

What we found: _____

Specifications Before and After Testing & Adjustment

Specification	Before	After

OTVARC Executive Board

President	Alan Churchill	AA7CV	639-5660
Vice President	Gene Buell	KA7KBH	646-7991
Secretary	Brad Beach	N7NVC	645-5232
Treasurer	Carl Clawson	WS7L	629-5796
Trustee	Susan Benson	N7EPE	640-1989
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Pat Griffiths	KA7UFG	649-0837
Trustee	Jim Schaeffer	KB7ADH	245-2518
Trustee	Alan Roehl	KO7B	292-5243

Other Club Contacts

Bingo Night	Ray Deeth	K7VDQ	324-4502
Contesting	John Koenig	NB7W	641-3575
DX News	Ken Gilbert	WR7D	292-3497
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Emergency Services	Tim Taylor	N7UCA	292-6830
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Al Berg	WB7SIC	640-5456
Newsletter Editor	*Open*		
Newsletter Layout	Jeff Durr	KA7AKU	645-3205
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Project Night	*Open*		
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
Satellites	Red Robert	AA7CP	357-5747
Scholarship	Pat Griffiths	KA7UFG	649-0837
Sea-Pac	Randy Stimson	KZ7T	297-1175
	Al Berg	WB7SIC	640-5456
	Pat Griffiths	KA7UFG	649-0837
	Jim Schaeffer	KB7ADH	245-2518
Technical	Joe Boyd	N7VZS	678-2188
Testing	Alan Roehl	KO7B	292-5243
Trailer	Dee Lynch	KA7NPN	646-4580
Training	Tom Durell	KG7RD	
	Bill Vesser	N7RYQ	644-3739
VHF/UHF	Bill Roth	N7RYW	297-7605

Local 2 Meter Nets

Here is a listing of two meter nets in the local area:

145.27	Monday	8:30 PM	YL & Ladies Net
145.27	Tuesday	6:00 PM	DX Linkup to the East
145.27	Wednesday	8:00 PM	Intertie Checkin
145.27	Thursday	7:00 PM	Evergreen Intertie Tech.
145.27	Thursday	9:00 PM	NAPRA Packet Ragchew
145.27	Friday	8:00 PM	Youth Net. 20 & Under
145.27	Saturday	9:00 AM	Swap Net
145.27	Saturday	Midnight	Nightowls
145.27	Sunday	10:00 PM	Astronomy Net
145.27	Daily	5:50 AM	Weather Net
145.27	Daily	4:24 PM	Weather Net
146.84	Daily	7:00 PM	PARC Checkin
146.90	3rd Wed	7:00 PM	OTVARC On The Air.
147.04	Tuesday	7:00 PM	WA Co. ARES Net
147.24	Tuesday	8:00 PM	Swap n Shop
147.32	Daily	6:05 PM	Traffic Training net
147.32	Daily	7:30 PM	District 1 ARES Net

You may join the Amateur Radio Relay Group if you wish. This group supports several repeaters in the Portland area and offers phone patch services to members. To join, write to ARRG, P.O. Box 10031 Portland, OR 97210 for details.

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a non profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1.) Education & training of new and licensed amateurs.
2.) Public Service during public events & community activities.
3.) Emergency Communications during emergencies & disasters.
4.) Hobby enhancement through meetings, nets and contests.
5.) Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. This means (among other things) that the club benefits from you joining the ARRL through our club. To join or renew the ARRL, contact the treasurer at any regular meeting.

Newsletter: The OTVARC NEWS is published monthy by the Oregon Tualatin Valley Amateur Radio Club, Inc. The opinions, views and recommendations of its contributors are not necessarily those of the Club, it's officers, advertisers or the Editorial Staff. All correspondence relating to the club can be sent to: OTVARC, P.O. Box 5132 , Aloha, Oregon, 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size and length of time desired. All ads must be paid for in advance. Rates for 1992:

Full Page	8" X 10"	$40/Mo, $110/Qtr or $400/Yr.
Half Page	8" X 5"	$25/Mo, $ 70/Qtr or $250/Yr.
Qtr Page	4" X 5"	$15/Mo, $ 40/Qtr or $150/Yr.
Bus Card	2" X 3"	$ 7/Mo, $ 20/Qtr or $ 70/Yr.

Meeting: We have three meetings per month - a board meeting (first Wednesday) at which all club business is transacted, a club meeting (second Wednesday) which is mostly social and educational and OTVARC On The Air (third Wednesday) which is a recap of the previous meeting. It is held from 7 - 7:30 PM on 146.90 Mhz.

Membership: OTVARC is open to anyone with an interest in radio or electronics. You do not need to be a licensed radio amateur to join our group.

1. Full, licensed hams, $10/yr. All privilages.
2. Associate, non hams, $10/yr. No vote, no elective offices.
3. Family, $5/yr. Spouses, dependents residing with full member. Same privileges as full members.
4. Life. See treasurer for details.

All memberships expire on the last day of the calendar year. If you join in the 2nd quarter, deduct 25% from the dues above. If you join in the 3rd quarter, deduct 50% from the dues above. If you join in the 4th quarter, deduct 75% from the dues above. In addition to the dues, there is a one time only initiation fee of $2.00.

How to Join: Simply mail the appropriate dues and your member profile form to the Treasurer, Carl Clawson WS7L at the PO Box above. He will send you put you on the membership list.

FIRST CLASS MAIL

Address Correction Requested

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Aloha, Oregon 97006-0132

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